

# Center for Advanced Construction Materials

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Established in April 1994 to produce marketable products while advancing the science of construction materials. The emphasis will be on both increased performance and use of waste materials, and to provide expertise and assistance to private and public sector partners.

Overview		Technologies	Status	Economic Impact
1994-95 State Contract	\$0	<ul style="list-style-type: none"> <li>• <b>The Center has developed a</b> proprietary process for mixing high levels of recycled tire rubber, up to 30% of aggregates by volume, with magnesium oxychloride to produce a superior grade of paving material, and to meet federal regulatory requirements on the use of recycled materials. A patent disclosure has been filed on this process.</li> <li>• <b>The Center has also developed</b> a proprietary system to cryogenically process the tires down to 100 mesh size. A patent disclosure has been filed.</li> <li>• <b>Also investigating the use of</b> other recycled materials in concrete, as well as other advanced construction materials with applications in both highway and building construction.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>The Center has recruited</b> additional team members and purchased necessary equipment.</li> <li>• <b>The Center secured</b> the matching funds from both private sector industrial partners and public sector partners.</li> <li>• <b>A spin-off company</b> which is in the process of being created, "Green Hill Recycling" will produce crumb rubber in various sizes adopting our technology.</li> <li>• <b>The center has set up</b> an operation to produce a new deicing material called "Ammonium Carbamate" for Mr. Charles Hansen who plans to build a plant to produce deicing materials if field tests show positive results this winter.</li> <li>• <b>Center is in the process</b> of receiving funds from a major Korean construction company called "Kumho" to use the center's tire concrete technology in constructing apartments in Korea.</li> <li>• <b>Another company called "Meandr Enterprises"</b> is also interested in applying the center's Magstone/polystyrene technology in building 15,000 low-income houses in Philippines.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>The center hired</b> three half-time research associates and a part-time administrative assistant. The center hired two graduate students and four undergraduate students in Civil Engineering department.</li> <li>• <b>A spin-off company "Green Hill Recycling"</b> is being created to process the recycled tires.</li> </ul>
Matching Funds Cumulative	\$96,000 \$96,000			
Center Related Jobs	7			
Industry Jobs Created	0			
Benefiting Utah Companies:	0			
1994 Spin-off Companies	0			
Cum. Spin-off Companies	0			
Patents Applied	1			
Patents Issued	0			
License Agreements	0			